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Abstract
In this decade, the industry of the Electric Wire and Cable in Taiwan is developing not only with expansion and diversification, but more internationalization. However, the impact after joining the World Trade Organization（WTO）, the firms must raise the operation performance, besides of emphasize on stronger internal management and cost down, and abilities to compete with the foreign ’s firms. So, we make a sure of research of the industrial management efficiency and investigate on the industrial attributes, and look forward to providing more reference on management executives.
The research method is based on the Stochastic Statistical Frontier Approach（SFA） to evaluate management efficiency of the Electric Wire and Cable in Taiwan, and investigation on the industrial attributes. We also cooperate with the C4.5 Decision Tree （DT） to search for the most efficiently significant model. Besides, we study if management efficiency is correlation to Earnings per Share（EPS）, Return on Assets（ROA）, Return on Equity（ROE）, and Net Profit Margin. Therefore, we make use of Spearman Rank Correlation to test the significance, and realize quality of management efficiency evaluating in advance.
The sample is taken from the Panel Data between 1996 and 2003, and given with the conclusion as following. The first, the average management efficiency is the best on the DAH SAN Wire and Cable Co., Ltd., and the worst on the Pacific Electric Wire and Cable Co., Ltd.. The second one is including industrial attributes variables of R & D density（R & D expense per net profit）, quality of human resources（numbers above college over total employee）, Standard Industry Classification Code（SIC Code）, Overseas Company Countries（OCC）, Inventory density（cost of total inventory over net profit）, and total employee numbers, which shows significant effect on management efficiency. The third one is that the significant DT model with number of SIC Code is below five, and ratio of above college employee is below 37.840%, and then can reaches that almost 100% firms are efficient. The fourth one is result of evaluate Spearman Rank Correlation shows the significant correlation with management efficiency in this period of time.
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